

Message Text

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FM SECSTATE WASHDC
TO USMISSION NATO PRIORITY

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E.O. 11652: N/A

TAGS: NATO, ETEL, MARR

SUBJECT: NATO SATCOM TAIL - NORFOLK

REF: USNATO 2190 (DTG 150819Z APR 77)

THE FOLLOWING INFORMATION IS PROVIDED IN RESPONSE TO REF:

A. ESTIMATED COST FOR NATO SHARE OF DRAMA SYSTEM (EQUIPMENT, INSTALLATION, TEST AND EVALUATION) BETWEEN NORTHWEST VA, BLDG N-14, AND TECH CONTROL FACILITY, BLDG M-51, IS 573K DOLLARS. ESTIMATED COST OF INTERCONNECT BETWEEN SGT L3 AND BLDG N-14 IS 30K DOLLARS. IF THIS LATER UPGRADE IS PROVIDED AS PART OF INTERIM SYSTEM, THERE WILL BE NO ADDITIONAL COST.

B. CONTRACT FOR DRAMA RADIO EQUIPMENT WAS RECENTLY
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AWARDED- DELIVERY OF EQUIPMENT WILL START IN 1979. WE EXPECT THAT PROJECT IMPLEMENTATION WILL BEGIN IN LATE 1979 OR EARLY 1980.

C. NATO SHARE FOR CONSUMABLES, PARTS REPLACEMENT, ETC., WILL BE ON A PRO RATA BASIS OF ONE THIRD OF ACTUAL EXPENSE. NATO SHARE FOR MANNING INTERIM AND DRAMA SYSTEMS IS ONE

GS 9 CIVILIAN TECHNICIAN.

D. THE LINK BETWEEN M-51 AND NH-95 WILL REMAIN PROVIDED BY THE TELEPHONE COMPANY IF TECHNICAL REQUIREMENTS ARE SATISFIED ECONOMICALLY.

E. AS PRESENTLY ENVISIONED THE INTERCONNECT FACILITY BETWEEN BLDG N-14 AND M-51 WILL EVENTUALLY CONSIST OF TWO DIGITAL MICROWAVE RADIO SYSTEMS. WE EXPECT THAT THE FIRST DIGITAL SYSTEM WILL HAVE A CAPABILITY OF APPROXIMATELY 12.6 MB/S, WILL SUPPLEMENT THE EXISTING ANALOG RADIO SYSTEM, AND WILL BE OPERATIONAL PRIOR TO END OF 1979. IT IS EXPECTED THAT THE SECOND DIGITAL SYSTEM, USING DRAMA EQUIPMENT, WILL HAVE A CAPACITY OF APPROXIMATELY 25.2 MB/S, WILL REPLACE THE EXISTING ANALOG SYSTEM SOMETIME IN THE 1980'S WHEN THE TRANSMISSION REQUIREMENTS EXCEED THE TOTAL CAPACITY OF THE PLANNED DIGITAL AND EXISTING ANALOG SYSTEMS.

FOR THE INTERIM SYSTEM, EXISTING MICROWAVE LINK BETWEEN BLDG M-51 AND BLDG N-14 WILL NEED TO BE UPGRADED FROM 120 TO 240 CHANNEL CONFIGURATION TO ACCOMMODATE NEW REQUIREMENT. THE UPGRADE WILL PRIMARILY CONSIST OF ADDITIONAL MULTIPLEX (AN/UCC-4) EQUIPMENT AND PATCH PANELS AT M-51 AND NORTHWEST. ASSUMING USE OF AVAILABLE MUX AND PATCH PANELS, TOTAL COST TO ENGINEER, INSTALL, AND TEST ADDITIONAL EQUIPMENT IS ESTIMATED AT 70K. LEAD TIME FOR IMPLEMENTING UPGRADE IS ESTIMATED TO BE 9 MONTHS.

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UNOFFICIAL ESTIMATES FOR LEASING 120 FULL DUPLEX UN-CONDITIONED VOICE GRADE CHANNELS BETWEEN BLDGS NH-95 AND M-51 VIA EXISTING MICROWAVE (M/W) AND LAND LINE (L/L) SYSTEMS FOLLOW:

--	M/W	M/W	L/L
--	OPTION I	OPTION II	
INSTALLATION	93K	0	6K
(EXTENSION OF EXISTING CABLE)			
MONTHLY CHARGES	2.6K	4.2K	.9K
TERM. LIABILITY	0	91K	0

LEAD TIME FOR M/W SYSTEM ESTIMATED TO BE 10-12 MONTHS AFTER TELCO RECEIVES FIRM ORDER. TERMINATION LIABILITY DECREASES LINEARLY OVER 120 MONTH PERIOD. LEAD TIME FOR L/L ESTIMATED TO BE 6-8 WEEKS AFTER TELCO RECEIVES A FIRM

ORDER. PRESENT TELCO ROOM CONFIGURATION IN M-51 CANNOT
EASILY PROVIDE REQUIRED SPACE FOR ADDITIONAL PATCH PANELS.
ALTHOUGH L/L ARE CONSIDERABLY MORE ECONOMICAL, WE DO NOT

RECOMMEND USE OF L/L DUE TO LACK OF SPACE AND EXTREMELY
POOR PERFORMANCE RECORD (QUALITY/RELIABILITY) OF EXISTING
CABLE.

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